

Jerry Shi

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EDUCATION

University of California, Los Angeles

B.S. Data Theory

Exp. June 2025

Los Angeles, CA

Coursework: Agile, Relational Databases, Spatial Data, Time Series Analysis, Monte Carlo Methods, R Modeling, Bayesian Stats

EXPERIENCE

AI Data Scientist

Stats Perform

June 2023 – Aug. 2023

Remote

- Develop AI-generated radio for live tennis matches: **extract key insights** of match data with Pandas, **prompt engineer** with OpenAI for text generation, and **code AWS Lambdas** for text to speech component
- **Successful product pitch** to CEO, conduct market research, explain key use-cases, leave clear documentation

Analytics Tennis Coach for World No.1

United States Tennis Association

June 2023 – Aug. 2023

Flushing, New York

- Overhauled manual QC methods by coding custom Python functions used for 50+ matches while on-site; **develop Tableau dashboard** to improve readability; condensed 10 page to 2 page reports; satisfying player clients
- **Coached World No.1** Coco Gauff for 2 weeks on-site, directly communicating with client and daily turnaround

PROJECTS

UCLA Tennis Consulting | *Python, React, Product Management*

June 2022 – Present

- Founded team (50) working **year-round** on full-stack match review website for College and Pro Athletes (30)
- Lead WebDev Team (10), using Firebase/React to create internal data collection software, client-facing website
- Manage end-to-end data engineering team (20) to clean/process shot-level data for 50+ matches using Pandas

IEEE Project Leader | *OpenCV, PyTorch, Tensorflow*

Sep. 2022 – June 2023

- Designed self-driving car with OpenCV image analysis for real-time traffic-sign, lane, and pedestrian detection
- Built CNN using PyTorch and Tensorflow to improve identifying features in new environments and lighting
- Designed 3D print car model to test software; ran at 80% accuracy across many trials at end of year

Personal Website | *Git, Creative Writing*

Sep. 2021 – Present

- Utilized Git version control to develop website, showcasing writing and project samples (see Github Link Above)

RESEARCH

Mobility Lab (UCLA) | *R Visuals, ML Models*

Sep. 2023 – Present

- Assist government project HAYSTAC, create publishable visuals **using time-series data** of travel paths
- Utilized **Sci-kit** to generate user travel trajectories based on input data and demographic, referenced in paper

Microsoft Reality Distortion Room | *C#, Unity, Augmented Reality*

Sep. 2023 – Dec. 2023

- Conducted **stat analysis** on user movement data throughout experiment to determine significance of each effect
- Create heatmaps of user position and 3D Unity Model to visualize each effect and its results for publication

ACHIEVEMENTS

Collegiate Athlete | *Tennis, Triathlon*

Sep. 2021 – Present

- 2x National Champion in Club Tennis, Top 10 Team National for Triathlon, UCLA Tennis Student Manager

TECHNICAL SKILLS

Languages: Python, R, SQL (Postgres), C/C++, JavaScript, HTML/CSS, Unity

Data Types: JSON, XML, Dask, CSV, txt

Libraries: Scikit, Pandas, NumPy, Matplotlib